

## Electrochemical Reader

## Ref. DROPSTAT

· Electrochemical Reader ·

· Custom Unique Instrument for each Researcher ·

· LCD Display of Analyte Concentration ·



· Cards available to modify parameters, technique or internal calibration ·



One customized equipment  
for many different applications

For those researchers who have successfully developed an electrochemical sensor, **DropStat** is the perfect tool to demonstrate the **real applicability** of their own developed sensor.

**DropStat** is a cost-effective, small, portable, stand-alone, hand-held, single-technique, potentiostat-based custom **Electrochemical Reader** that is configured attending to customer's needs, thus allowing the researcher to have a **unique instrument** able to show in a LCD screen the concentration of the analyte for which the electrochemical sensor has been developed.

Attending to researcher's needs, **DropStat** is **custom configured** with a **voltammetric** or an **amperometric technique** and its specific selected parameters (deposition times, scan rate, potential ranges, step potentials, interval times, etc.), as well as with a **calibration curve**, all according to the specific application developed by the researcher for the analyte detection.

**DropStat** **automatically measures** the selected electroanalytical curve parameter (peak intensity, peak potential, peak area, etc.) and, according to the calibration curve, displays the corresponding **analyte concentration** in the LCD display.

The user can easily **change the electrochemical technique, technique parameters or internal calibration** by simply inserting **programmed cards** that can be provided upon request.

Displayed results are recorded internally and can be downloaded via USB to a PC, using the dedicated Windows software provided with **DropStat**.

Available techniques\*:

<b>LSV</b>	Linear Sweep Voltammetry
<b>CV</b>	Cyclic Voltammetry
<b>SWV</b>	Square Wave Voltammetry
<b>DPV</b>	Differential Pulse Voltammetry
<b>AD</b>	Amperometric Detection

\*(DropStat is configured with one of the above techniques, selected by customer, and can be reprogrammed with programming cards.)

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Limits of configurable parameters		
Pretreatment	Conditioning time:	1 s to 1200 s
	Deposition time	1 s to 1200 s
	Equilibration time:	1 s to 1200 s
	Conditioning potential:	-2 V to +2 V
	Deposition potential:	-2 V to +2 V
General Parameters	Begin potential:	-2 V to +2 V
	End potential:	-2 V to +2 V
	Step potential:	1 mV to 2 V
	Pulse potential:	1 mV to 2 V
LSV and CV	Scan rate:	1 mV/s to 2 V/s
SWV	Frequency:	1 Hz to 200 Hz
	Amplitude potential:	1 mV to 250 mV
DPV	Scan rate:	1 mV/s to 2 V/s
	Pulse time:	1 ms to 200 ms
AD	Interval time:	0.1 s to 300 s

Instrument Specifications		
• Power		Li-ion battery
• Interface		LCD
• PC Interface		USB
• Potential range		$\pm 2$ V
• Maximum measurable current		$\pm 200 \mu\text{A}$
• Current resolution		0.1% of current range
• Potential resolution		1 mV

*Specifications are subject to change without previous notice*

### Related products



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